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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,526	03/04/2002	Baoquan Zhang	1743	6562
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OVERLAND PARK, KS 66251-2100			2617	

DATE MAILED: 10/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/090,526

Applicant(s)

ZHANG ET AL.

Examiner

Un C. Cho

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 21 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-5 and 7-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 7 – 9 and 14 – 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emery et al. (US 5,727,057) in view of the APA (hereinafter APA).

Regarding claim 1, Emery discloses a method of locating a mobile station comprising the steps of: providing a phone number of the mobile station to a service node (provides a DN to Services System (Fig. 1, 102)); initiating a call to the mobile station from a service node; obtaining cell and sector information of the mobile station during processing of the call; and sending a facilities available message containing location information from the MSC to a service control point; and providing the cell and sector information to the service node (Switching System, which is connected to Services System, performs polling and obtains updated Location ID of a particular terminal and that information is sent back to the Services System; Emery: Col. 6, line 46 through Col. 7, line 25; Col. 4, lines 15 – 24 and Col. 5, lines 43 – 56).

However, Emery as applied above does not specifically disclose receiving a routing alias from a serving MSC, and transmitting an ISUP message to the serving MSC based on the routing alias; identifying the call at the serving MSC

as a request to locate the mobile based on the ISUP message. In an analogous art, the APA discloses receiving a routing alias from a serving MSC, and transmitting an ISUP message to the serving MSC based on the routing alias; identifying the call at the serving MSC as a request to located the mobile based on the ISUP message (APA: Page 5, lines 1 – 24). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of the APA to the system of Emery in order to provide the location of the mobile terminal through the call setup method as disclosed by the APA.

Regarding claim 2, Emery in view of the APA as applied above discloses that the service node includes an intelligent peripheral that provides service resource functions such as voice actuated dialing and DTMF, which means that the intelligent peripheral is capable of instructing the user in making different choices to requesting the phone number of the mobile station to be located and is capable of receiving DTMF tones corresponding to the mobile station phone number (Emery: Col. 10, line 64 through Col. 11, line 39).

Regarding claim 7, Emery in view of the APA as applied above discloses providing the cell and sector information comprises sending the cell and sector information from the service control point to the service node (Switching System obtains updated Location ID whereas the information is returned back to the Services System (Services System is composed of SCP, SN, IP, VLR and HLR;

Fig. 1, 102) when is requested; Emery: Col. 6, line 46 through Col. 7, line 25 and Col. 10, line 64 through Col. 11, line 39).

Regarding claim 8, Emery in view of the APA as applied above discloses provisioning a Terminating Resources Available trigger, and sending a facilities available message in responsive to the trigger (see Figs. 4A and 4B; Emery: Col. 11, lines 40 – 57).

Regarding claim 9, Emery in view of the APA as applied above discloses un-provisioning the Terminating Resources Available trigger (Emery: Col. 11, lines 40 – 57).

Regarding claim 14, Emery in view of the APA as applied above discloses that the phone number is a MIN (DN or IMSI; Emery: Col. 6, line 56 through Col. 7, line 25).

Regarding claim 15, Emery in view of the APA as applied above discloses that the phone number is of the form NPA-NXX-XXXX (10 digit phone number; Emery: Col. 10, line 64 through Col. 11, line 39).

Regarding claim 16, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Regarding claim 17, Emery in view of the APA as applied above discloses that the network node is an intelligent peripheral node (Services System is composed of SCP, SN, IP, VLR and HLR; Fig. 1, 102).

Regarding claim 18, Emery in view of the APA as applied above discloses that the network node is a service control point (Services System is composed of SCP, SN, IP, VLR and HLR; Fig. 1, 102).

3. Claims 3 – 5, 10 – 13 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emery in view of the APA as applied to claim 1 above and further in view of Meadows et al. (US 6,716,101).

Regarding claim 3, Emery in view of the APA as applied to claim 1 above does not specifically disclose the step of providing a phone number of the mobile station is performed by a web-based interface. In an analogous art, Meadows discloses a web-based interface (Fig. 4a) to providing a phone number of the mobile station to be located (Meadows: Col. 5, lines 30 – 47). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the technique of Meadows to the modified system of Emery and the APA in order to provide a method and system for monitoring the geographical location of a subscriber's mobile cellular telephone and for providing the location information to an authorized user through the world wide web.

Regarding claim 4, Emery in view of the APA and further in view of Meadows as applied above discloses a web form having a mobile phone number field (Fig. 4a) and submitting the request via the web-based interface (selects to monitor; Meadows: Col. 5, lines 30 – 47).

Regarding claim 5, Emery in view of the APA and further in view of Meadows as applied above discloses obtaining user account information (name and phone number), transmitting a web form having a service request object (information screen), receiving an indication that the service request object was selected (providing visual feedback of selection), querying a database for the mobile phone number field corresponding to the user account information (obtaining the information regarding the selected user) and receiving the phone number of the mobile station in response to the query (Meadows: Col. 5, line 13 through Col. 6, line 9).

Regarding claim 10, Emery in view of the APA and further in view of Meadows discloses querying a database (look-up table) for a message corresponding to the cell and sector information (location information such as street name, street intersection, county or township; Meadows: Col. 4, line 61 through Col. 5, line 5) and playing the message to a user (displaying a map to the user according to the information; Meadows: Col. 5, lines 48 – 51).

Regarding claim 11, Emery in view of the APA and further in view of Meadows as applied above discloses that the message includes city and state information (street name, street intersection, county or township; Meadows: Col. 4, line 61 through Col. 5, line 5).

Regarding claim 12, Emery in view of the APA and further in view of Meadows as applied above discloses querying a database (look-up table) for a graphic image corresponding to the cell and sector information (location

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information such as street name, street intersection, county or township;

Meadows: Col. 4, line 61 through Col. 5, line 5) and displaying the graphic image (map, Fig. 4b) to a user (Meadows: Col. 5, lines 48 – 51).

Regarding claim 13, Emery in view of the APA and further in view of Meadows as applied above discloses authenticating a user (the user entering an access code; Meadows: Col. 5, lines 38 – 39).

Regarding claim 19, the claim is interpreted and rejected for the same reason as set forth in claim 13.

### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1 – 5 and 7 – 19 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C. Cho whose telephone number is (571) 272-7919. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.




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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Un C Cho  
Examiner  
Art Unit 2617

*10/27/06 de*

  
GEORGE ENG  
SUPERVISORY PATENT EXAMINER